Optics and Lasers in Engineering **14** (1991) 369–370

CONTENTS OF VOLUME 14

Number 1

Nominal Hazard Distances for CO_2 Lasers 1
J. A. FOLKES, J. TYRER & A. M. BANDLE (UK)

The Measurement of Slope Using Shearography 13
C. J. TAY, F. S. CHAU, H. M. SHANG, V. P. W. SHIM &
S. L. TOH (Singapore)

Investigation of the Cellular Automata Method for Phase Unwrapping and its Implementation on an Array Processor 25
A. SPIK & D. W. ROBINSON (UK)

Developments and Applications of Conjugate-wave Holographic Interferometry 39
L. PIRODDA (Italy) & L. J. GRIFFITHS (UK)

Book Reviews 55

Number 2

Special Issue on the Optical Methods of Caustics II

Guest Editorial 69

Application of the Method of Caustics under Mixed-Mode Loading in Elastic–Plastic Materials 71
Y. ZHANG & K. RAVI-CHANDAR (USA)

Simulated Caustic Patterns for Dynamic Crack Growth in a Plate Based on a Three-Dimensional Numerical Analysis 85
R. H. SMITH & L. B. FREUND (USA)

Application of the Shadow-Optical Method of Caustics to Toughness Evaluation of a Polymer Alloy 101
K. TAKAHASHI, G. O. SHONAIKE, J. KUSUMOTO,
Y. SAKURADA & S. YAMAUCHI (Japan)

The Caustic Approach to Rayleigh-Waves and their Interaction with Surface Irregularities 115
H. P. ROSSMANITH (Austria)

Optics and Lasers in Engineering **(14)** (1991)—© 1991 Elsevier Science Publishers Ltd, England. Printed in Northern Ireland

Number 3

Special Issue on Applications of the Photoelastic Method to some Problems in Solid Mechanics

Guest Editorial 147

Investigating the Crack Stress Shielding Effect by Using Photoelastic and Acoustic Imaging Techniques 151
C. T. LIU & C. W. SMITH (USA)

Dynamic Photoelastic Studies of Wave Propagation in Granular Media . . . 165
ARUN SHUKLA (USA)

Refined Methods in Photoelastic Stress Analysis with Applications to Fracture Mechanics 185
J. S. EPSTEIN & W. R. LLOYD (USA)

A Study of Mixed Mode Fracture by Photoelasticity and Digital Image Analysis 203
B. DURIG, F. ZHANG, S. R. McNEILL, Y. J. CHAO & W. H. PETERS III (USA)

Photoelastic Study of Interfacial Fracture of Bimaterial 217
HUA LU (Canada) & F. P. CHIANG (USA)

Numbers 4 & 5

Special Issue on Automatic Interferogram Analysis

Guest Editorial 235

Automatic Interferogram Analysis Techniques Applied to Quasi-heterodyne Holography and ESPI 239
D. P. TOWERS, T. R. JUDGE & P. J. BRYANSTON-CROSS (UK)

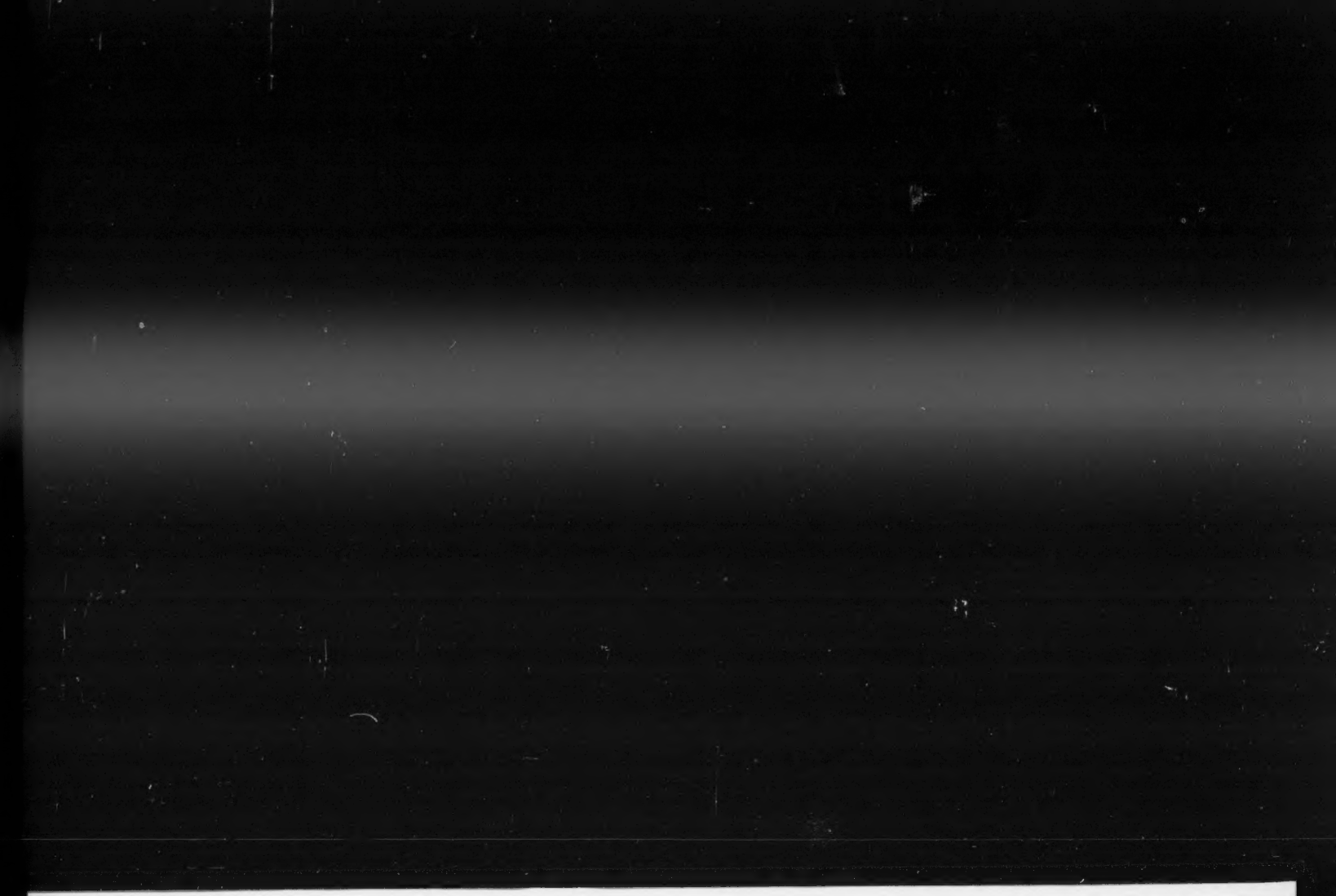
New Approaches in Interpreting Holographic Images 283
J. SCHÖRNER, A. ETTEMEYER, U. NEUPERT, H. ROTTENKOLBER, C. WINTER & P. OBERMEIER (FRG)

Recent Developments in Laser-Diode Interferometry 293
YUKIHIRO ISHII (Japan)

Automatic Processing of Fringe Patterns in Integer Interferometers 311
V. I. GUSHOV & YU. N. SOLODKIN (USSR)

High Accuracy Fourier Transform Fringe Pattern Analysis 325
M. KUJAWINSKA & J. WÓJCIAK (Poland)

Speckle Metrology Employing LCTV Spatial Light Modulators 341
B. BATES & P. C. MILLER (UK)

Automated Optical Anaysis of Young's Fringes—Optical Autocorrelation . . 351
JEREMY M. COUPLAND & NEIL A. HALLIWELL (UK)

Announcements 363